



# Endowment at \$10 bil

## MIT's percent returns outperform peers'

By **Leon Lin**  
STAFF REPORTER

In the past few months, several of the richest universities in the U.S. have announced their endowment performances for the 12 months ending on June 30. MIT's endowment grew to \$10.1 billion, the highest value achieved in its history. MIT's primary investment pool, produced a return of 8 percent, topping returns at other schools, including Harvard, Yale, Princeton, and Stanford, the four private

universities with deeper pockets than MIT. However, all of these schools reported poorer returns on investments in fiscal year (FY) 2012 than in the previous year. MIT posted a 17.9 percent return in FY 2011. Increases in university endowments reflect gains from investments as well as contributions from donors, which accounted for 14.3 percent of the increase in MIT's endowment in FY 2012. These increases are offset by spending towards each university's operations. The portion of the endowment transferred to the operating budget is typically about 5 percent. Stanford also reported the highest endowment in its history, surpassing pre-recession values for the first time. Though Stanford only had an investment return of 1 percent for the year, donations boosted their endowment to \$19.7 billion, overtaking Yale's \$19.3 billion. Harvard's investments produced a return of -0.05 percent which, after contributions and spending appropriations, resulted in Harvard's endowment dropping from \$31.7 billion to \$30.7 billion, down from the school's 2008 peak of \$36.6 billion. However, Harvard's endowment is still the largest among universities, with Yale's at a distant second. As with Harvard, the value of Yale's endowment fell slightly in FY 2012 and awaits a full recovery from the economic crisis.

Endowment, Page 18

## Two dead bodies found in the Charles

Two dead bodies were found in the Charles River this week. On Monday, the unidentified body of a 62-year-old man was found near the Boston University Boathouse. On Tuesday, police identified through dental records the body of 23-year-old Jonathan Dailey, a second-year graduate student at Boston Architectural College. He was discovered at the bottom of the river, chained to a cinder block. Dailey had been missing since Oct. 2 and was taking a semester off from graduate school. Authorities have said they do not think there is foul play involved in the death of the 62-year-old man. Investigation into Dailey's case is ongoing. Jake Wark, spokesman for District Attorney Daniel F. Conley, said in a statement to *The Boston Globe*, "The facts and circumstances surrounding Mr. Dailey's death remain under investigation by State Police detectives assigned to the Suffolk DA's office." He added that the Office of the Chief Medical Examiner has not yet determined the cause or the manner of Dailey's death.

—Deborah Chen



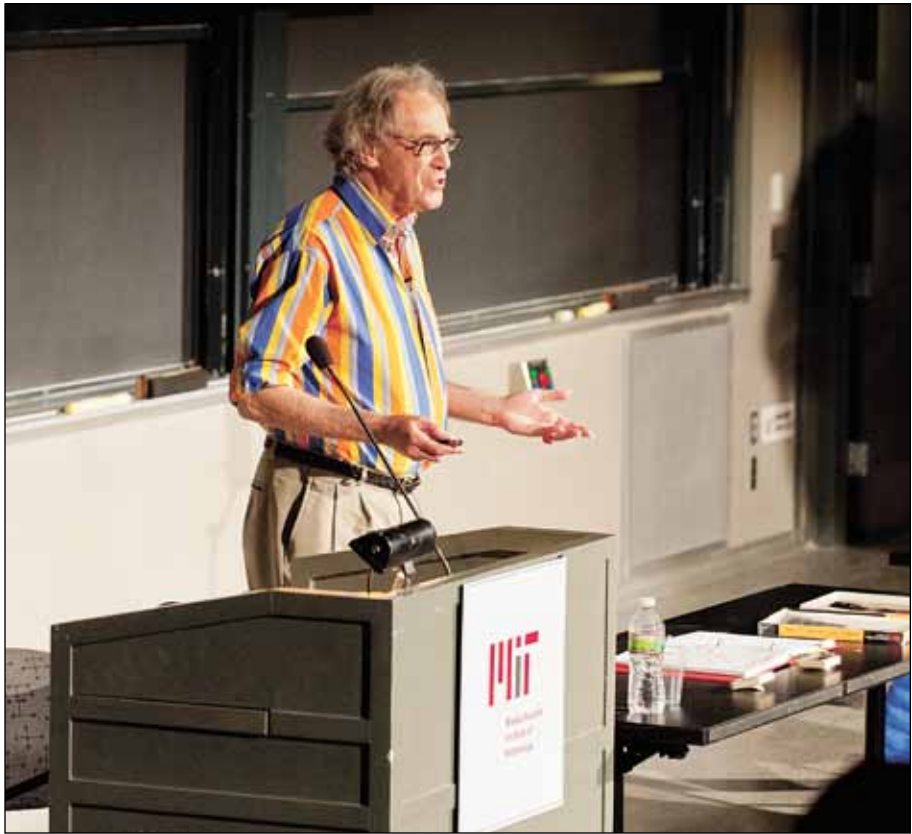
CHRISTOPHER A. MAYNOR—THE TECH

Posters of missing Boston Architectural College graduate student Jonathan Dailey were put up in the Infinite Corridor. Dailey was found dead in the Charles River on Tuesday.

## INTERACTIVE



Take a closer look at how MIT's endowment stacks up with those of other universities.  
<http://bit.ly/MITendowment2012>



EMILY KELLISON-LINN—THE TECH

**MIT Professor Emeritus Walter Lewin, famous for his astrophysics research as well as for his undergraduate physics lectures, returned to the lecture hall on Thursday to deliver a public talk on the history of X-ray astronomy.** He detailed major scientific breakthroughs from 1962 through 1972 that led to the discovery of X-ray-emitting objects throughout the galaxy. The lecture was part of "An Astronomical Event," a day-long symposium presented by the MIT Department of Physics and the Kavli Institute for Astrophysics & Space Research.

## REPORTER'S NOTEBOOK

# Higgs Boson, explained

### MIT physics profs try to clarify discovery

By **Janelle Mansfield**  
ASSOCIATE NEWS EDITOR

Last spring, news of the discovery of proof of the Higgs Boson particle swept MIT's campus, prompting discussion in classrooms, on social networks and email lists, and in casual conversations among students. During this news blitz, the recurring question on my mind was, what exactly is the Higgs Boson? Since I have no theoretical physics knowledge, I didn't understand the significance of it at all. Feeling out of the loop on this piece of nerdy knowledge, I couldn't pass up the chance to hear four MIT professors explain what the mysterious particle is and why it is

so exciting. So, on Thursday night I made my way to 26-100 to hear several MIT professors speak about it. The lecture hall was packed; attendance was higher than most of my 7.012 lectures. Professor Edward H. Farhi of the theoretical physics department took the floor first. He outlined the importance of the evidence found this spring, calling it "a great coming together of theory and experiment" and "the most complicated experiment that has ever been built." After building up some suspense in the audience, he introduced Assistant Professor Jesse Thaler to give an overview of the physical theory of the Higgs Boson.

Higgs Boson, Page 16

## IN SHORT

**Family weekend starts today.** Welcome parents! Check out the full schedule of events at <http://parents.mit.edu>.

**Quarter 2 PE registration** is now open! Go to <http://mitpe.com/> to sign up for a class. The deadline is Oct. 17 at 1 p.m.

**The Student Center** will soon require MIT IDs for access from 1 a.m. to 6 a.m.

every night. Look out for the changes this month!

**The U.S. Supreme Court** heard *Fisher v. University of Texas* yesterday. The case concerns the role of affirmative action in college admissions; in August, MIT filed an amicus brief supporting the use of race as a factor in a holistic admissions process.

**Send news information and tips to** [news@tech.mit.edu](mailto:news@tech.mit.edu).

**THE LAST 25 DAYS: THE POSSIBILITIES**  
A look at battleground states: how close could the election be?  
**OPINION, p. 5**

**A LETTER ON EDX LEADERSHIP**  
President Reif responds to *The Tech's* editorial from last week. **OPINION, p. 4**

**ARTFUL MUSICAL INSTRUMENTS**  
Queen of Spain's pianoforte and other instruments at the MFA. **ARTS, p. 12**



**WHAT IS THIS TIME TRAVEL NONSENSE?**  
*Looper* won't close that loop for you, but it's an entertaining drama anyway. **ARTS, p. 11**

**NFL PREDICTIONS: WEEK 6**  
Do your bets for this week agree with *The Tech's*?  
**SPORTS, p. 19**

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Arts .....12  
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# A legal brawl in Mexico as bond buyers look on

**By Azam Ahmed**  
*THE NEW YORK TIMES*

tro effect.”

The company and its lawyers dismiss the notion of a Vitro effect. They say that Mexican law has always had the loophole, which allows a company to use loans to its subsidiaries to generate votes to approve a bankruptcy plan.

Nothing is different, they say, except for the obstinacy of the parties on the other side of the table: Elliott Management and Aurelius Capital Management.

"If you're a sophisticated party that chooses to go and institute litigation in Mexico, you can hardly claim the benefits of U.S. law, and particularly the benefits of U.S. policy, to protect you from the decision that comes out of that court," said Andrew M. LeBlanc, a lawyer for Vitro, in arguments before a federal judge in Dallas.

Despite the uproar among Vitro's creditors, both Elliott and Aurelius continued to buy the bonds even after the company issued a news release detailing a number of the actions that the hedge funds are now questioning, people briefed on the matter say.

—*Martin Fackler, The New York Times*

**By Christopher Jensen**  
*THE NEW YORK TIMES*

ed to conduct a "customer satisfaction campaign" but decided to pursue the recall after discussions with the agency. A customer satisfaction campaign can be as simple as an extended warranty, whereas a recall is far more expensive and demanding, requiring all vehicles to be repaired even if a problem is not evident.

Toyota said it would begin notifying owners by mail of the recall at the end of the month. Technicians will inspect, disassemble and apply grease to the switch free.

—Sara Schonhardt, *The New York Times*

**By Roman Kowch**  
*STAFF METEOROLOGIST*

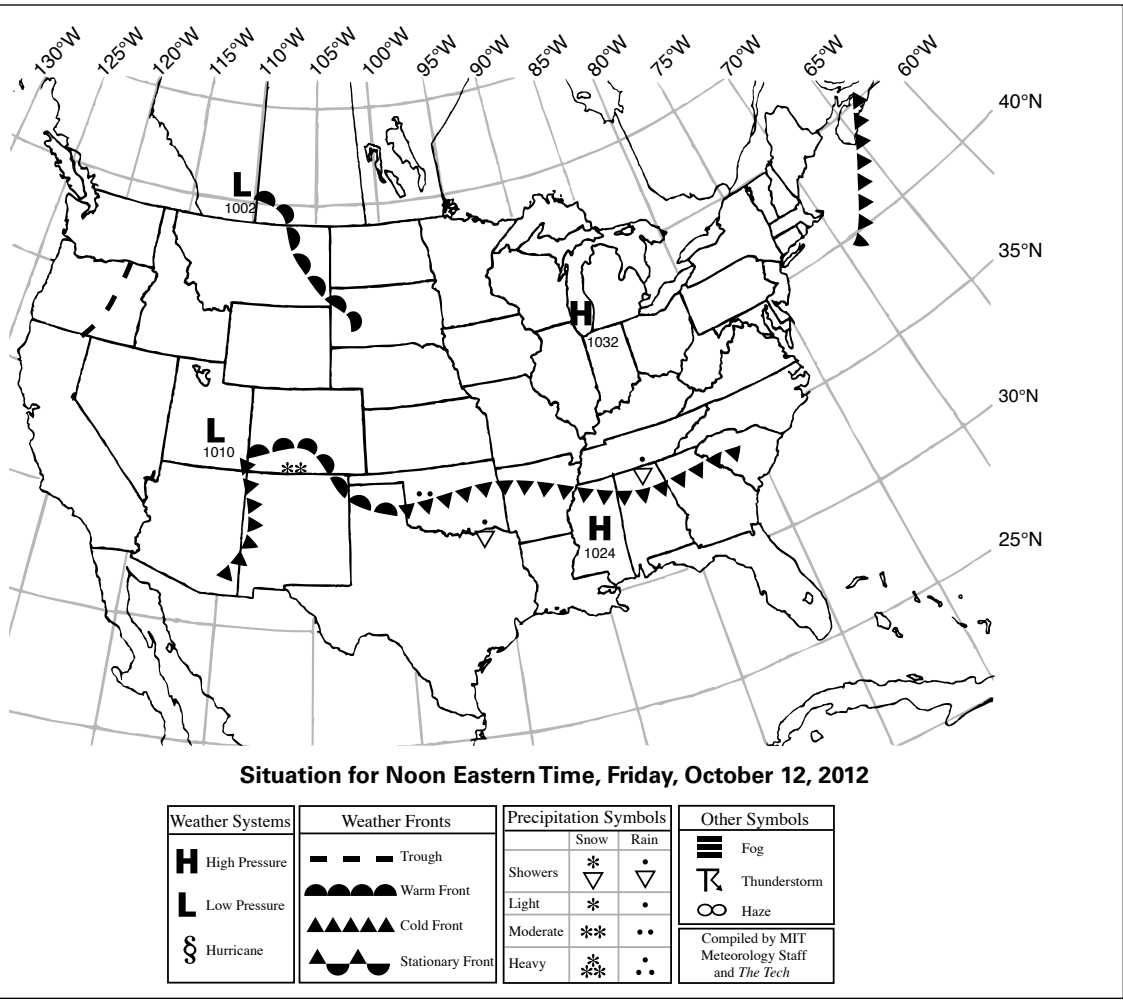
side on Saturday. By that time, the high pressure will reach us and provide clear, dry conditions. The cold temperatures will not last long because a low pressure will approach the Great Lakes, pushing warm air into the Northeast by Monday. Any significant rain chances should hold off until late Sunday. So the jacket is a better choice over the umbrella this weekend.

**Today:** Partly sunny. High 55°F (13°C). NW wind at 15 mph, gusts to 25 mph.

**Tonight:** Clear and cold. Low 33°F (1°C). NW wind at 10-15 mph.

**Tomorrow:** Sunny. High 54°F (12°C). W wind at 10 mph.

**Sunday:** Mostly cloudy. Chance of showers late. High near 64°F (18°C). Low near 44°F (7°C). SW wind at 15 mph.







# The Big Mo and the Big Three

25 days, many possibilities

By A.J. Edelman  
STAFF COLUMNIST

There are 25 days left until November 6, 2012. In the week and a half since the first presidential debate, polls have shifted significantly, changing the Electoral College (EC) math. While Governor Romney holds a lead in the national nationwide polling average, the popular vote is not an accurate barometer from which to measure the outcome of the coming election, since it is the Electoral College (the delegates afforded to individual states) that will determine the victor. Therefore, election-watchers (and the candidates) will closely be watching the individual state by state polls as the race comes down to the wire.

As of now there are at least 12 states considered to be toss-up (or battleground) states. Each of these states holds different numbers of electors in the EC. Prior to last week’s debate there were 9 states considered to be true battlegrounds. Since the debate, two additional states have moved from solid Obama into the toss-up category. The battleground states are in the chart accompanying this article (Bold indicates new battleground states).

### The Path to 270

The Big Mo: In politics, momentum is key. Sometimes referred to as “the big mo,” momentum provides not only fundraising and enthusiasm boosts, but also can act as a catalyst to help sway undecided voters. It is in many ways more important than a campaign’s finances. The momentum heavily favors Romney right now, and all recent polls reflect this, especially in the swing states.

Particularly troublesome for the Obama campaign is that Romney has now pulled ahead or is within the margin of error in many swing states. Momentum heavily favors Romney in Florida, North Carolina, Ohio, and Virginia, which comprise the bulk of the delegates up for grabs.

As the race moves into its final few weeks, both campaigns will focus their time and money in states they consider essential and

abandon states that they consider out of reach. For the GOP this means that Pennsylvania and Michigan will continue to receive very little — if any — attention. New Hampshire may also be abandoned. Likewise for Democrats, North Carolina and Missouri, where Romney leads outside the margin of error, may be dropped.

### The Big Three

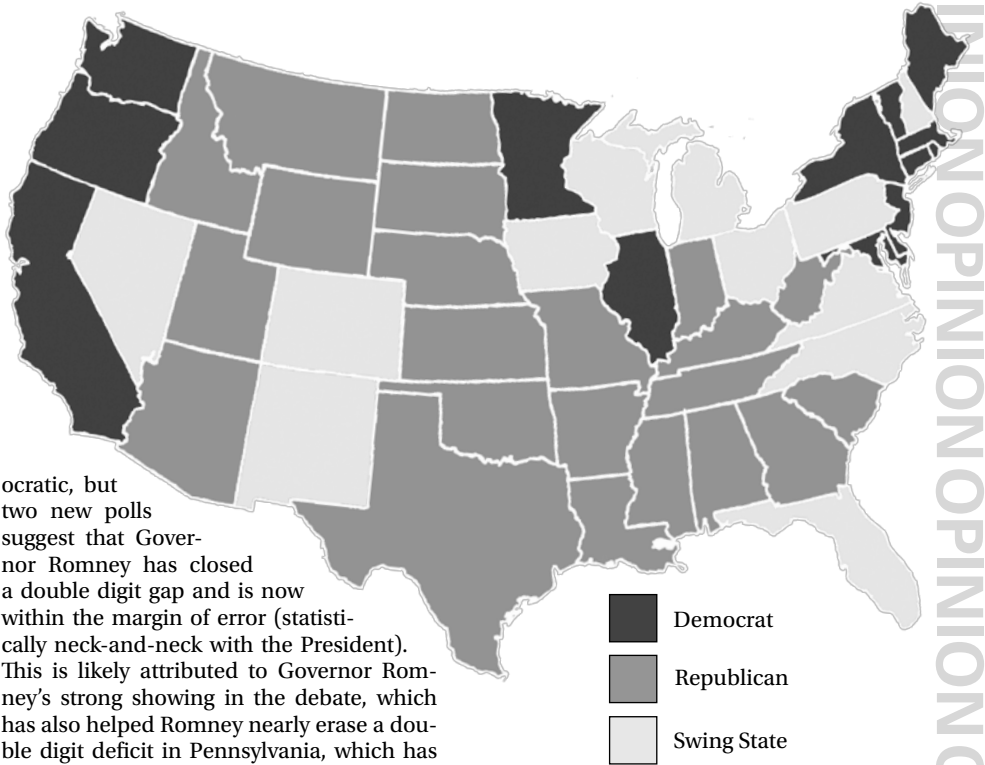
The most obvious means of securing victory is for either candidate to win two of the three major tossup states — Florida, Ohio, Virginia. No Republican has ever won the presidency without winning Ohio. Should Romney secure victory in all three of these states he is virtually guaranteed victory. So too if President Obama takes two of the three.

It is still too early to predict what the final map would look like but if trends hold, but expect Obama to hold Iowa while Romney adds North Carolina, Missouri, Virginia, and possibly Florida to his column.

The president maintains an edge in polling and according to many models has a greater chance of winning than does Governor Romney, yet ultimately the deciding factor in the big-three states may be get-out-the-vote (GOTV) efforts. Here too momentum may be swinging Romney’s way. The GOP has seen a 63 percent surge in volunteers and so far has an edge in early voting applications (bucking a trend). Yet Democrats are well known for their formidable GOTV framework, which benefits greatly from the support of union volunteers. Expect GOTV efforts to be a large factor in whether some swing states vote one way or the other. In 2008, Obama received fewer votes on Election Day than did McCain in Colorado, Florida, Iowa, and North Carolina, yet still won those states because of his success at driving early voting.

### Pennsylvania, Michigan, and New Hampshire

While Governor Romney’s father was once a popular governor of Michigan, the auto bailout is very popular in Michigan. Trends suggested that MI would hold solidly Dem-



ocratic, but two new polls suggest that Governor Romney has closed a double digit gap and is now within the margin of error (statistically neck-and-neck with the President). This is likely attributed to Governor Romney’s strong showing in the debate, which has also helped Romney nearly erase a double digit deficit in Pennsylvania, which has gone Democratic in each of the last 5 presidential elections.

While initially Governor Romney will likely continue to focus his time and money elsewhere, in the coming days there will likely be a flurry of private polls conducted by Super-PACs and the campaigns to confirm the results. Should an ad-blitz break out in any of these states, it will signal independent confirmation and both candidates will shift their strategies and campaign appearances accordingly. This is especially true of Pennsylvania, where Obama holds a 4 point advantage, almost within the margin of error, yet still breaks the 50 percent barrier. New Hampshire doesn’t have many delegates, yet Romney has ties to the state and opening up a new battleground in the Northeast may pressure Obama. Again, the ad-wars will tell if private polling confirms NH’s toss up status. Another 40 electoral votes in play will open up further permutations by which the candidates can gain the 270 delegates needed for victory.

### Predictions

There is still significant time left in the campaign. Twenty-five days is an eternity in politics. Just as the final month of the 2008 campaign ultimately propelled Obama to victory, so too anything can happen during this election cycle. However, given the current momentum and polls, these are possible scenarios:

**Tie:** It is possible for the Electoral College to reach a tie, 269-269. A tie hasn’t occurred in almost 200 years, and the chance in this cycle is remote. In such a case the president and vice president would be chosen by the House of Representatives and Senate, respectively. Of the 12 battleground states there are 61 different combinations for a tie to be achieved.

Assuming that no tie takes place, then one of the more likely outcomes may look like a repeat of 2004, where the election was decided by Ohio, or a repeat of 2000, where the election was decided by Florida. Similar to 2000, it is not inconceivable that a candidate wins the popular vote yet loses the Electoral College, yet such an outcome would likely see the roles reversed, with the Republican candidate winning the popular vote and the Democratic candidate winning the College.

## INTERACTIVE



Check out The Tech’s interactive map of battleground states. <http://bit.ly/swingstates2012>

# The perception of science

MIT students need to promote the field

Perception of science, from Page 4

conducts. Posters everywhere highlight the importance of research in areas ranging from energy storage, to biomedical devices, to robotics. The spotlight on the MIT homepage offers a daily reminder of the continuous stream of innovative ideas that MIT researchers produce and how these ideas will benefit society. Unfortunately, stories like these rarely reach the general public.

We as MIT students know first-hand about the value of science; we see it every day. We also represent the face of science in America — I am continually amazed by the amount of articles on science and technology in the *New York Times* which quote MIT affiliates. We are the ambassadors of

science and as such, we must do a better job promoting it. With this power comes the responsibility to show the general public how science benefits society. People

**We must remind the public of this fact; science has a proven track record.**

have short memories; most probably they do not remember how almost all game-changing technologies from the computer to the Internet emerged from government-sponsored research done by scientists in colleges and universities.

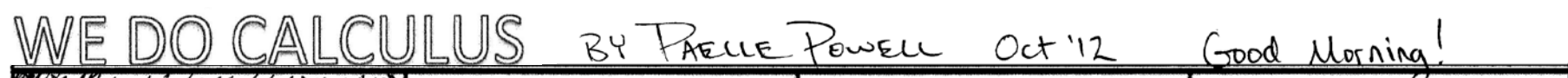
We must remind the public of this fact;

science has a proven track record. But moreover, we must inspire them with ideas about what the future might hold. Given what science has produced, we should be offering the public a window into the generation of scientific discoveries.

Organizations like the TED conferences have started to take up this duty, but we at MIT must do more to be a part of the solution. By stressing the idea that science can improve the standard of living and benefit everyone, we scientists and engineers can help change the public opinion on science and scientists. If more people realize just what a difference scientists and engineers make, then we may inspire more people to join us as we try to use science to save the world.

Sam Shames is a junior in Course 3.





Hey, remember when I argued QUITE PERSUASIVELY that Aladdin was history's greatest monster for never ever wishing to an end to suffering?

Turns out he's got competition!

FROM SNOW WHITE'S WICKED QUEEN.

The story glosses over it kinda quickly, like they KNOW it's nuts, but this lady - this QUEEN - has a magic mirror which, due to its magical ways, will HONESTLY ANSWER ANY QUESTION YOU PUT TO IT AS LONG AS IT RHYMES. And what does she use it for?

Prettiness tests!

Exactly!

She doesn't say "Mirror mirror on the wall, how can life's curse of aging be stalled?"

Nope!

Nor does she say "Mirror mirror on the wall, how can clean energy be provided for all?" or even "Mirror mirror mounted here, how can chicks and dudes have satisfying careers?"

NOR does she ask "Mirror mirror mounted centrally, please provide a closed-system technique of reversing entropy". what a jerk!!

MEANWHILE, IN FAIRYTALE LAND:

Mirror mirror on the wall, who's the fairest of them all?

Fair like pretty or fair like equality? The word has overloaded semantic duality.

True enough!




A WEBCOMIC OF ROMANCE,  
SARCASM, MATH, AND LANGUAGE  
by Randall Munroe

[1118] Microsoft

REMEMBER WHEN WE PROSECUTED MICROSOFT FOR BUNDLING A BROWSER WITH AN OS?

IMAGINE THE FUTURE WE'D LIVE IN IF WE'D BEEN WILLING TO LET ONE TECH COMPANY AMASS THAT MUCH POWER.



Facebook, Apple, and Google all got away with their monopolist power grabs because they don't have any 'S's in their names for critics to snarkily replace with '\$'s.

HIDDEN BETS by Bruce R. Sutphin

Solution, page 12

ACROSS

- 1 Drudge
- 5 Birthplace of seven presidents
- 9 Irrational outbursts
- 14 Scabbard adornment
- 15 Often
- 16 Light on one's feet
- 17 Rock group
- 18 "I couldn't agree more!"
- 19 On edge
- 20 Subtle literary device
- 23 4 Down debut
- 24 Shade of suede
- 25 Resort town lineup
- 28 Train of thought
- 30 Spanish dessert
- 32 Criticize
- 33 Snoopy alter ego
- 36 Compatriot
- 37 Smug feeling
- 39 Unpaid TV ads
- 41 Allowed to continue
- 42 Vaguely viewed
- 43 Scepter toppers
- 44 Apple messaging software
- 48 San Joaquin Valley city
- 50 Tee, e.g.
- 52 In the past
- 53 Severe storm
- 57 Piano parts
- 59 Turning point
- 60 Keeps reminding
- 61 Dodge
- 62 Frequent launcher
- 63 "See ya"
- 64 Dub worthy
- 65 Tube trophy
- 66 Plunges

DOWN

- 1 Do well
- 2 Ryder Cup side

1	2	3	4	5	6	7	8	9	10	11	12	13
14				15				16				
17				18				19				
20				21				22				
23				24				25			26	27
28			29			30	31			32		
			33		34	35				36		
			37						38			
39	40				41							
42				43				44		45	46	47
48			49				50	51			52	
			53				54	55			56	
57	58					59				60		
61						62				63		
64						65				66		


- 3 Shakespearean king
- 4 Share trading org.
- 5 College World Series locale
- 6 Prone to error
- 7 Frosted
- 8 "Good heavens!"
- 9 Allot
- 10 Deal facilitator
- 11 With the utmost care
- 12 2012 British Open champ
- 13 Come to understand
- 21 Longtime senator Thurmond
- 22 Moby-Dick vessel
- 26 Part of many rapper's names
- 27 Watch furtively
- 29 Spanish eyes
- 30 Shaving stuff
- 31 Wacky
- 34 Julie & Julia director
- 35 Blunt instrument
- 36 Letters on a converter
- 37 Was realized
- 38 Stable sound
- 39 PC viewable page format
- 40 Formal greeting
- 43 Heavy weights
- 45 State always on standard time
- 46 Daters' concern, perhaps
- 47 Sculpted forms
- 49 Unburdens
- 50 Refraction device
- 51 55 Down portion, often
- 54 Isak Dinesen, e.g.
- 55 It's held for questioning
- 56 How some files are backed up
- 57 Fly catcher
- 58 Misfortune




PILED HIGHER AND DEEPER




by Jorge Cham



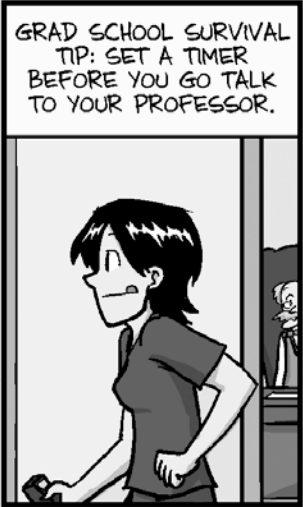
SET ALARM 00:30 beep beep



PROF. JONES, DID YOU SEND OUT THAT FILE FOR MY FELLOWSHIP APPLICATION? YES...



THAT REMINDS ME, DID I EVER TELL YOU THE STORY OF THE TIME I... BEEP BEEP BEEP! OOPS, SORRY, I GOTTA TEND TO MY EXPERIMENT...



GRAD SCHOOL SURVIVAL TIP: SET A TIMER BEFORE YOU GO TALK TO YOUR PROFESSOR.

WWW.PHDCOMICS.COM

1:20AM IS TIME FOR...

THE ALL NIGHTERS



MIT MEDICAL IS CLOSED OVERNIGHT. CALL THE 24-HOUR HELPLINE AT 617-253-4481

by Dohyun Lee  
- BIRTHDAY PUNCH



## Solution, page 12

6		4			8	5		
	5	3		6				2
			5					
5				4	7		9	1
		9				8		
2	3		9	8				5
					5			
7				9		3	1	
		2	4			7		8

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

## Solution, page 12

10+		13+		30x	2
8+			3		1
	288x		75x		
4				3x	
5		72x			4
5x				24x	

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

```
import new_skills

def learnMarketableJobSkills():
    return linux, OSX, javascript, applescript, perl, python

if you.interest == True:
    print "E-mail join@tech.mit.edu"
```

```
----:----F1 joinTechno.py      (Python)--L1--Top
```

# TEAM HBV *MIT*

## Hepatitis B Screening Training Session



**Sunday October 14<sup>th</sup>**

**7-8pm, McCormick Brown Living Room**

- Learn how you can help screen patients for Hepatitis B as part of Team HBV
- Get involved as a member of exec board
- Enjoy bubble tea!



# Target practice: 2.009



CHRISTOPHER A. MAYNOR—THE TECH  
Students in 2.009 (Product Engineering Processes) launched “snowballs” at polar bears and target flags last Friday in Killian Court as part of the class’ engineering process challenge. A variety of launching devices, such as giant slingshots and pneumatic guns powered by bicycles, were present at the festive event.



MOVIE REVIEW

# Closing the loop

Present and future collide in Rian Johnson’s action-packed *Looper*

**By Jaimie Chung**  
*STAFF WRITER*

Despite the fact that *Looper*’s entire premise is time travel, it’s not your typical sci-fi film. It is hard to give a summary of the film without unraveling the plot, which speaks to how intricate the storyline is. Without giving too much away, the film centers on Joe (played by Joseph Gordon-Levitt), who is meant to kill his future self (played by Bruce Willis). Little does he know that his future self has a plan of his own to both stay alive and prevent future events.

Director and writer Rian Johnson cleverly evades the complications that come with time travel by having Bruce Willis’s character state outright, “I don’t want to talk about time travel shit.” Viewers who want to see a true science fiction film will be disappoint-

ed (the time machine, resembling an old-fashioned scuba diver mask, is also rather lackluster next to the futuristic computers and printers), but the film proves to be perfectly entertaining and well-made. By side-stepping the issues of time travel, Johnson makes room to ask questions like whether “the ends justifying the means,” — a theme that facilitates a twist ending which left me speechless.

**‘I don’t want to talk about time travel shit.’**  
—Bruce Willis, as future Joe

I was particularly impressed by the jargon Johnson created. “Looper” refers to a person, like Joe, who kills people sent back in time from the future (so that there is no dead body as evidence). The term is apt

because these assassins operate under the knowledge that they will eventually have to “close their loop,” or kill their future selves to tie up loose ends. Throughout the film, characters use phrases such as “letting your loop run” and “it’s the second loop this week,” which helps legitimize the alternate reality Johnson has created.

Cinematographically, the film was a consummate work. Motifs like close-ups of cigarette smoke and ticking clocks are intricately placed, the camera work while Gordon-Levitt is on an acid trip is breathtaking, and the details necessary to maintain consistency between the future and current Joe are painstakingly accurate. For example, in a diner scene, we see a newly injured, bandaged ear on Gordon-Levitt and a disfigured ear on Willis. Most of all, the dialogue is sharply witty. Jeff Daniels, whose character is from the future, utters

★★★★☆

Looper

Directed by Rian Johnson

Starring Joseph Gordon-Levitt, Bruce Willis and Emily Blunt

Rated R

Now Playing

one of the best lines: “I’m from the future, you should go to China.” I could even swear I heard Willis yell “yippee ki-yay, mother-fucker!” over a machine gun, but that could just be wishful thinking.

Another nearly flawless aspect was the casting. Veterans Bruce Willis and Jeff Daniels bring their usual prowess to the screen, while Paul Dano and Emily Blunt successfully transform into roles that are unlike any others they have played before (Blunt even tackles a Southern accent). A highlight comes in the form of Joseph Gordon-Levitt, who supposedly spent hours in make-up having prosthetics applied so that he would look more like Bruce Willis. Gordon-Levitt is an incredibly versatile actor, but his kind features usually hinder him when playing serious roles. Though his contrived voice and strangely perfect eyebrows are distracting at first, he is able to capitalize on the disguise and adopt a convincing tough guy persona. Unfortunately, child actor Pierce Gagnon, who plays Cid, does not bring enough depth to his character, and although he only has a few scenes, these scenes are crucial to the plot.

My largest grievance is that the film is disguised as a sci-fi film when it is actually a drama with sci-fi elements. Sci-fi has often produced some of the most philosophical films, and these films have the technology at the forefront. *Looper* was publicized as a time travel film, but Johnson chose not to address the muddiness of the concept and to just take the best parts of science fiction — cool graphics, an arsenal of weapons, and the “trippy” factor.



Current and future Joe (Joseph Gordon-Levitt, Bruce Willis) go head-to-head in time-travel action film *Looper*.

Solution to Crossword

from page 7

PEON	OHIO	RAGES
RUBY	MUCH	AGILE
ORES	AMEN	TENSE
FORESHADOWING		
IPO	TAN	HOTELS
TENOR	FLAN	RIP
	JOECOOL	ALLY
	COMPLACENCY	
PSAS	HUMORED	
DIM	ORBS	ICHAT
FRESNO	PEG	AGO
	THUNDER	SHOWER
WIRES	AXIS	NAGS
ELUDE	NASA	CIAO
BLESS	EMMY	DIPS

Solution to Sudoku

from page 8

6	9	4	1	2	8	5	3	7
8	5	3	7	6	9	1	4	2
1	2	7	5	3	4	6	8	9
5	8	6	3	4	7	2	9	1
4	7	9	2	5	1	8	6	3
2	3	1	9	8	6	4	7	5
3	1	8	6	7	5	9	2	4
7	4	5	8	9	2	3	1	6
9	6	2	4	1	3	7	5	8

Solution to Techdoku

from page 8

3	1	5	4	6	2
2	6	4	3	5	1
6	4	2	1	3	5
4	2	6	5	1	3
5	3	1	6	2	4
1	5	3	2	4	6

MIT-ISRAEL

INFORMATION SESSION

Tuesday, October 16, 5pm

1 Amherst Street, E40-4th floor

Discover opportunities for internships and research in Israel — ALL EXPENSES PAID! Learn about the application process and speak with returning interns.

Food will be served.

mit.edu/misti/mit-israel

MISTI

MIT ISRAEL

WE'RE SEEKING TO

BUILD OUR FORCES

JOIN@TECH.MIT.EDU



# REGISTER TO VOTE!



**Voter Registration  
Forms**

**Absentee Ballot  
Requests for  
ALL 50 STATES**

**FREE Stamps  
and Envelopes**

**Wednesday October 10<sup>th</sup> – Wednesday October 17<sup>th</sup>**

10/10 through 10/12

Student Center:  
9-10am, 4-5pm

Stata: 11-2pm

10/13

Student Center: 1-3pm

10/17

Student Center: 11-2pm

10/15 through 10/16

Lobby 10: 10-2pm

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# Upcoming Dalai Lama visit thrills City of Medford

## Boston visit hosted by MIT's Dalai Lama Center for Ethics & Transformative Values

**By Lisa Wangsness**  
*THE BOSTON GLOBE*

MEDFORD — It is an ordinary working-class neighborhood: clapboard houses, chain-link fences. There is a statue of the Virgin Mary in one front yard; in another, a Halloween ghost waves in the wind.

But something extraordinary is happening here. Fences are coming down. Aluminum bleachers are going up. Thursday morning, a crew will begin erecting a 280-foot-long tent, large enough to fit more than 1,800 people.

The Dalai Lama is coming to Magoun Avenue. And — never mind the disruption, the noise, or that there aren't many Buddhists in these parts — the neighbors are pretty much thrilled.

Jim McCormick, a former construction worker who has lived on the street for 20 years, said his sister-in-law is coming from North Carolina for the event. And his 86-year-old mother-in-law, an observant Roman Catholic, had been eagerly looking forward to it before her recent death. "She would have been right out there," he said.

### The Dalai Lama is coming to Magoun Avenue.

The mustard-colored house across the street from McCormick's is the Kurukulla Center for Tibetan Buddhist Studies, a homey dharma center where American Buddhist converts and many members of the small Tibetan ref-

ugee community in the area gather to pray and meditate.

His Holiness first visited the Kurukulla Center in 2003, welcomed there by the late Geshe Tsulga, who fled Tibet weeks after the Dalai Lama in 1959 following the uprising against the Chinese

### At 7:30 Wednesday morning, a massive truck from a scaffolding company in South Boston squeezed a set of bleachers to seat 300 people into the backyard.

occupation, and who served as the Medford center's resident teacher for 17 years. Before he died in 2010, Geshe Tsulga implored the Dalai Lama to return to Medford, said Wendy Cook, the former center director and now a yoga teacher there.

This visit "is a fulfillment of our teacher's dying wish," Cook said. It will come Tuesday at the end of a three-day trip to the Boston area hosted by the Dalai Lama Center for Ethics and Transformative Values at MIT, which includes a talk at the Marriott Copley Hotel in Boston on Sunday and panel discussions on global environmental, economic, ethical, and governmental issues at MIT on Monday.

When the New York office of the Dalai Lama notified the Kurukulla Center that he would make room in his schedule for a private event there this fall, the center's leaders were overjoyed. In 2003, a couple hundred people attended. This time, they thought, perhaps they could invite a few more. Perhaps — oh — 1,800 or so?

The street closings, parking

bans, and major construction that shoehorning an event of this size into a residential neighborhood — not to mention the intense security and the small Tibetan market to be set up for the day — are normally the sort of disruptions that set city officials' teeth on edge and

that test neighbors' patience.

But many of the neighbors well remember the Dalai Lama's last visit. And so does Mayor Michael McGlynn.

The Dalai Lama, as the mayor recalls it, captured the hearts of Medford residents from the moment he arrived.

"People were stunned that not only the Dalai Lama was here in Medford, but he jumped out of the car to say to all the neighbors, 'How ya doin'!' McGlynn said.

His Holiness, the mayor allowed, may not have used those exact words.

But when his motorcade turned up Magoun Avenue, it came to a halt long before it reached its destination. The Dalai Lama emerged from his car and, as the air reverberated with the chanting of monks broadcast over a loudspeaker, he made his way down the street, shaking hands and greeting Tibetans, neighbors, and others who had come to catch a glimpse.

McCormick fondly remembers the Dalai Lama greeting his elderly

mother-in-law.

"He kissed her hand," he said.

McGlynn himself was repeatedly sidelined by an officious member of the Secret Service, who kept advising him: "Do not approach the Dalai Lama." But the Dalai Lama, as McGlynn recalls it, kept wanting to know where the mayor had gone, forcing the security officers to retrieve McGlynn.

"As I've said to many people since that day — I was only with him for 45 minutes to an hour, but I feel he's one of my best friends in life," McGlynn said. "Everybody pretty much felt the same way."

When the center opened its doors last month to discuss the plan for the day with neighbors, organizers were prepared for the worst. They invited the mayor, a police lieutenant, a state representative, and even the Rev. Chip Hines, pastor of St. Joseph in Medford, to help them explain their plans and offer reassurance.

But nobody complained.

One neighbor offered use of her backyard. Another wanted to know whether there was anything they should or shouldn't do to make the Dalai Lama feel welcome. Several others asked how they could get tickets.

Jonathan Walker, 35, who lives nearby and works at Staples, wanted to know whether he could help clean up.

"It's your community," he said afterward, with a slight shrug. "It's what you're supposed to do."

May Marquebreuck, 82, said she was looking forward to the day: "His Holiness is a wonderful inspiration for the whole world, actually."

Linda Brown, a neighbor who works for the school department's food service, said she and her husband did not hesitate when the center asked, a bit audaciously, if they could please remove their two backyard fences to make way for the giant tent. She is not a Buddhist but likes to take yoga classes at the center, and likes "the flow" of energy she gets from next door.

### His Holiness first visited the Kurukulla Center in 2003.

"You just feel it," she said.

Barbara Melanson, a Buddhist and the center's volunteer landscaper, said three burly men came by the day before to let her know they were planning a backyard barbecue on the day of the Dalai Lama's visit, and "if His Holiness would like to join them, they'd love it."

At 7:30 Wednesday morning, a massive truck from a scaffolding company in South Boston squeezed a set of bleachers to seat 300 people into the backyard, beeping as it went. If any of the neighbors minded, they didn't say so.

McGlynn said several Catholic priests have asked him for tickets. One, he recalled, said with a laugh: "Well, I'll probably never see the pope, so why not see the pope of the Buddhists?"

"Throughout the world, I know there are deep religious divides," the mayor said. "But you're not going to find them in Medford."

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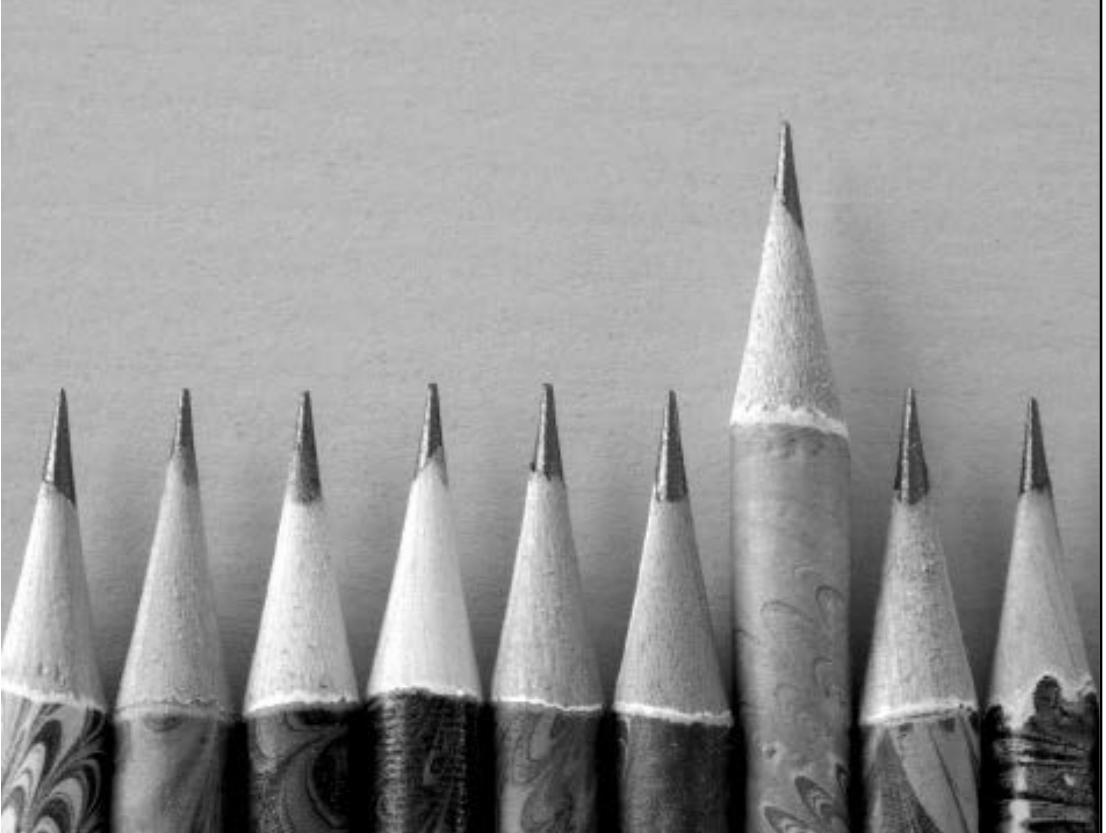
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2012 Endowment

MIT's overall investments up 5%

Endowment, from Page 1

Jane Mendillo, president and CEO of the Harvard Management Company, attributed 2012's performances to "unresolved macroeconomic headwinds" in the *Harvard Gazette*.

MIT's Report of the Treasurer was released last month. Executive Vice President and Treasurer Israel Ruiz SM '01 has declined to make further remarks on MIT's 2012 performance. The MIT Investment Management Company did not respond to *The Tech's* requests for comment.

The varying performances among universities are due in part to the disappointing performance of emerging markets in 2012. The SPDR S&P Emerging Markets index fell 15 percent during FY 2012, while the S&P 500, a benchmark for investments in domestic equities, returned 5.5 percent.

The Harvard Management Company invested roughly equal

amounts in emerging markets, developed foreign markets, and U.S. markets in 2012, according to a September report from Mendillo. MIT-IMCo invests more than three times as much in developed and domestic markets than in emerging markets.

The 4.6 percent of MIT's endowment allocated for spending in FY 2012 made up 15.7 percent of the \$3.0 billion collected in operating revenues, assets from which funds are pulled to run MIT. The lion's share of these assets comes from research grants, which comprised just over half of FY 2012 operating revenues and totaled to more than five times MIT's income from tuition. Gains from a pool of investments distinct from the endowment investments also contribute to the cash flow into the operating budget. The FY 2012 returns from these investments were worse than those from the primary endowment investment pool. All together, MIT's investments grew 5 percent in FY 2012.

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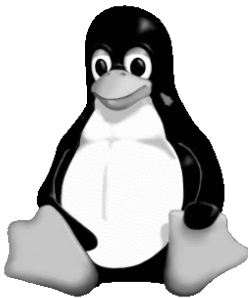
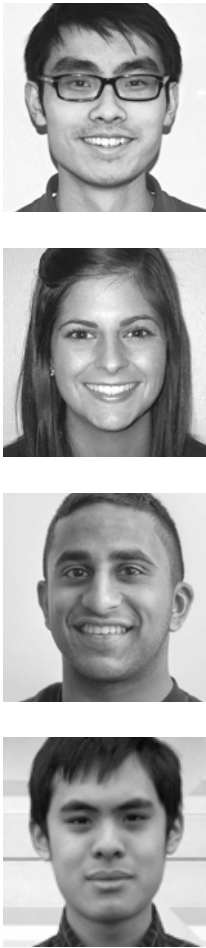
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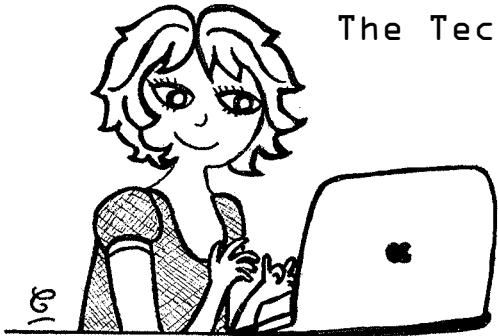
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# Lions and Rams and Falcons, Oh My! Week 6

Get the betting money out, because Austin Osborne has the 'Tute's best predictions

By Austin Osborne  
SPORTS STAFF

**Kansas City Chiefs @ Tampa Bay Buccaneers**

*Sunday, Oct. 14, 1 p.m.*  
Kansas City comes off a tough loss to the Baltimore Ravens. Their offense couldn't get anything going last week, and Jamaal Charles was shut down for the entire game. However, they did play outstanding defense, holding the very dangerous Ravens offense to just nine points. Tampa Bay comes off a bye week, and they should be well rested for this game. Their running game will be effective and they should win comfortably.



*Prediction: 24-13 Buccaneers*

**Indianapolis Colts @ New York Jets**

*Sunday, Oct. 14, 1 p.m.*  
The Colts shocked the Packers last week in an emotional game after their Head Coach Chuck Pagano was diagnosed with leukemia. They had an outstanding defense in the second half after allowing three touchdowns to Aaron Rodgers in the first half. Andrew Luck set a Colts record for passing yards in a game by a rookie with 362 yards. He has a really good connection with long-time Colts great Reggie Wayne, and they are becoming a fearsome duo. The Jets nearly beat the AFC's best team, the Houston Texans, but they let it slip away as Mark Sanchez threw an interception with 1:51 remaining. The Jets still have no running game, and they become too one-dimensional on offense to win consistently.



*Prediction: 20-16 Colts*

**Cincinnati Bengals @ Cleveland Browns**

*Sunday, Oct. 14, 1 p.m.*  
The Bengals looked flat against Miami, with QB Andy Dalton throwing two interceptions and not being able to move the offense effectively. Their defense played well however, holding Reggie Bush to under 50 yards rushing. Cleveland started off well against the Giants, jumping out to a quick 14-0 lead before promptly allowing New York to score 41 points and losing in a rout. Brandon Weeden must cut down on the interceptions if



Cleveland wants a chance to win Sunday. Fun fact: the Browns have not won a division game since 2010.

*Prediction: 27-10 Bengals*

**Detroit Lions @ Philadelphia Eagles**

*Sunday, Oct. 14, 1 p.m.*  
Detroit has been unimpressive this season. After limping out of the gate to a 1-3 start, they travel to Philadelphia for a tough game against the Eagles. Matthew Stafford still leads the second best passing attack in the NFL, but Detroit hasn't been able to convert those huge numbers into wins. They will have difficulty doing so this week as well. The Eagles come off another close game, this time a loss, to the Pittsburgh Steelers, so they will be looking to right the ship. Once again, the story of the game was Michael Vick's inability to hold onto the ball, fumbling three times and losing two of them. When Vick plays cautiously and intelligently, the Eagles are one of the most complete teams in the NFL.



*Prediction: 34-24 Eagles*

**Oakland Raiders @ Atlanta Falcons**

*Sunday, Oct. 14, 1 p.m.*  
Atlanta won again last week, improving their record to 5-0 for the first time in franchise history. They took the lead with 2:46 remaining and the Robert Griffin III-less Redskins couldn't muster enough offensive firepower to make up the difference. For the second straight week Atlanta has looked off, but they have been able to make up for it in the end. They are able to win ugly games, which is a good indicator of a championship-caliber team. Coming off a bye week, Oakland does not look impressive. They are dead last in rushing yards and their defense has been porous. Expect Matt Ryan to pick apart the Oakland secondary en route to their sixth straight win.



*Prediction: 38-17 Falcons*

**St. Louis Rams @ Miami Dolphins**

*Sunday, Oct. 14, 1 p.m.*  
St. Louis is definitely a good sleeper pick this year. They have quietly picked up three wins this season, adding another against a tough Arizona team last Thursday night despite a lackluster effort from Sam Bradford. Their pass

rush is suffocating as they sacked Kevin Kolb nine times throughout the game. This marks the first week since 2006 that the Rams have had a winning record. This is definitely a team on the rise.



Miami also comes off a surprising win over the Bengals. Ryan Tannehill was outstanding, and he is improving every week while their rush defense continues to dominate. Miami has not allowed a 100-yard rusher for 19 straight games now, an incredible feat considering some of the great running backs they've faced.

*Prediction: 24-17 Rams*

**Dallas Cowboys @ Baltimore Ravens**

*Sunday, Oct. 14, 1 p.m.*  
Dallas heads to Baltimore coming off an embarrassing loss to the Chicago Bears. Tony Romo looked lost as he threw five interceptions, two of which were returned for touchdowns. It won't get any easier this week as they play the Ravens, a team known for their defense. Even though Baltimore was stagnant last week against Kansas City, they managed to pull out a win with a superb defensive effort. Ray Rice was also effective on the ground, racking up over 100 yards.



*Prediction: 20-14 Ravens*

**Buffalo Bills @ Arizona Cardinals**

*Sunday, Oct. 14, 4:05 p.m.*  
Buffalo's defense was non-existent against San Francisco, allowing 45 points and over 300 yards rushing. Since their first half lead last week against the Patriots, the Bills have been outscored 90-10 — not the sign of a playoff team. In consecutive weeks, the Bills have allowed almost 1200 yards of total offense, which is practically unheard of in the NFL. Arizona is no longer on a winning streak after losing last week to the Rams. Their offensive line play must improve if they want to keep Kevin Kolb healthy, but their defense continues to be strong.



*Prediction: 27-14 Cardinals*

**New England Patriots @ Seattle Seahawks**

*Sunday, Oct. 14, 4:05 p.m.*  
New England started off their game last week against Denver

looking terrific on offense. They jumped out to a quick 31-7 lead, but their defense slowly allowed Peyton and the Broncos to creep back into the game. Luckily Denver ran out of time, but their



defensive effort has to be concerning for Patriots fans. The Seahawks continue to be a completely unpredictable team. This week, they were the good Seahawks. They held Carolina to 190 total yards and snatched a close 16-12 victory. Russell Wilson looked good, going 19/25 and throwing for over 220 yards. If Seattle continues their trend, this week will be the bad Seahawks, and the Patriots should win comfortably.

*Prediction: 31-21 Patriots*

**New York Giants @ San Francisco 49ers**

*Sunday, Oct. 14, 4:25 p.m.*  
The 49ers were nearly perfect last week. They are the first team in NFL history to rush and pass for over 300 yards, and they also set a new team record for yardage amassed with 621 total yards. They held Buffalo to three points and controlled the game from the outset. Ever since their loss to the Vikings, San Francisco has looked outstanding. The Giants started slow last week, but quickly returned to form as they went on to blow out the Browns. This will be a great game, and it is definitely the must-watch of the week.



*Prediction: 17-13 49ers*

**Minnesota Vikings @ Washington Redskins**

*Sunday, Oct. 14, 4:25 p.m.*  
Minnesota won again this week, and the Vikings are quickly cementing themselves among the NFC's best. Percy Harvin and Adrian Peterson have been huge for the Vikings this season as they cruised to an early 4-1 record. Christian Ponder has also done a good job managing the game, and he hasn't made too many costly turnovers this season. Washington had a scare last week as Robert Griffin III was knocked out of the game late in the fourth quarter with a concussion. It remains to be seen whether or not he will play against Minnesota this week. Rookie Alfred Morris has been



incredibly impressive this season, and he was again this week, rushing for over 100 yards. The Redskins will need to rely on him to have a chance, especially if Griffin is out.

*Prediction: 24-13 Vikings*

**Green Bay Packers @ Houston Texans**

*Sunday, Oct. 14, 8:20 p.m.*  
The Packers have not looked like themselves this season, losing to teams they would have dominated last season. Aaron Rodgers has been critical of his play this season, although it may not be only his fault. He is still having a good season taking care of the ball, but his defense is letting him down. The loss of Cedric Benson and B. J. Raji will hurt an already shaky Packers team, and things won't get easier against the Texans. Houston didn't look as outstanding as they usually do, but they still got the job done against the Jets. They have lost Brian Cushing for the season, which hurts their linebacker core. If any team can figure it out though, it's Houston. Expect a barnburner in this game.



*Prediction: 38-28 Texans*

**Denver Broncos @ San Diego Chargers**

*Sunday, Oct. 14, 8:35 p.m.*  
Peyton Manning had another outstanding game last week, this time carving up the Patriots' defense for almost 350 yards. He needs a consistent running game behind him however, if the Broncos want to be successful. They almost completed a great comeback, falling just short as the Patriots managed to hold on. San Diego allowed New Orleans to get their first win of the season, but it's nothing to be embarrassed about. Drew Brees looked like the Brees of old, throwing for 370 yards and four touchdowns in his NFL record-setting game. He has thrown a touchdown in his 48th consecutive game, and he led the Saints to a desperately needed win. Philip Rivers threw for more than 200 yards in the first half and completed all of his passes of 15 yards or more. In the second half, however, the Chargers' offensive line began to show its weakness, and Rivers was sacked a total of five times.



*Prediction: 27-21 Broncos*

# Tennis beats Clark

## Women win 7-2 vs. Babson, Clark

By Felicia Hsu  
SPORTS STAFF

MIT Women's Tennis started off against Clark by sweeping the doubles matches, ultimately defeating Clark 7-2. Julia C. Hsu '14 picked up wins in doubles and singles, including the match-clinching singles victory. After the No. 3 team of Vynnie J. Kong '15 and Meghana Vasireddy '16 dominated the first doubles set with an 8-0 win, the Engineers went on to take the rest of the doubles matches. Ava P. Soleimany '16 took the first singles match of the night with an impressive 6-0, 6-0 in the No. 5 match, followed by Hsu with a score of 6-4, 6-2 at No. 2. Alana H. Peters '16 made it 6-0 in MIT's favor with a 6-1, 6-2 victory in the No. 6 match. Keeping up with their perfect NEWMAC record (5-0), the En-

gineers rolled past Babson with an overall score of 7-2. Sunnie E. Lampl '16 won in both doubles and singles, clinching the win for MIT. Lauren C. Quisenberry '14 and Hsu took the first point of the afternoon with an 8-4 win at No. 1. Though Kong and Vasireddy fell to the No. 3 at 8-6, the Engineer's No. 2 team of Lampl and Michelle M. Dutt '15 scraped by with a 9-8 (7-5) win. Heading into singles with a 2-1 lead, MIT picked up the next three wins to claim victory over Babson. Quisenberry claimed a win at No. 1 with a 6-2, 6-2 score just before Kong scored a victory with a 6-3, 6-2 win at No. 2. Lampl delivered the next win at No. 6 taking a 6-4, 6-0 decision. The MIT Women's Tennis team will take a break from NEWMAC play until Oct. 16 when it will travel to Wellesley. This weekend it plays at Amherst College.



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### Friday, Oct. 12

Men's Tennis vs. SUNY Oneonta 4 p.m., DuPont Tennis Courts  
Women's Volleyball vs. Bridgewater College 7 p.m., Rockwell Cage

### Saturday, Oct. 13

Rifle vs. John Jay 9 a.m., DuPont Athletic Center  
Sailing vs. Firefly and FJ Invite 9:30 a.m., Charles River  
Swimming and Diving — Alumni Meet 1 p.m., Zesiger Center  
Women's Volleyball vs. Western New England University 11 a.m., Rockwell Cage

Women's Soccer vs. Springfield College 1 p.m., Roberts Field  
Men's Tennis vs. Nichols College 1 p.m., DuPont Tennis Courts  
Women's Volleyball vs. Rivier College 2 p.m., Rockwell Cage  
Men's Soccer vs. Springfield College 4 p.m., Roberts Field

### Sunday, Oct. 14

Rifle vs. Rose Hulman 9 a.m., DuPont Athletic Center  
Sailing — Firefly and FJ Invite 9:30 a.m., Charles River



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